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SOUTH VILLA. Equatoreal. (MM. Bishop and Hind.)

1848.	Greenwich M.T.	R.A.	Dec.
	h m s	° ′ ″	° ′ ″
August 7	14 50 57	105 11 31·9	+22 8 33·3
22	14 30 26	113 49 48·8	+20 38 24·0

Mr. Hind says, "My ephemeris is in error.

	Δ α cos δ	Δ δ
	′ ″	″
August 7	+1 24·9	−19·3
22	+1 51·2	−21·7

The planet shone as a star of the 11–12th magnitude.

ASTRÆA.

CAMBRIDGE. Meridian. (Professor Challis.)

1848.	Greenwich M.T.	R.A.	No. of Wires.	N.P.D.	Log. $\frac{q}{P}$
	h m s	h m s		° ′ ″	
Aug. 9	12 15 55·3	21 30 44·63	4	104 26 27·8	−9·961
17	11 37 30·9			105 10 51·9	9·964
21	18 27·5	20 25·83	4	32 34·0	9·965
22	13 41·3	19 35·42	3	37 44·8	9·965
23	8 54·9	18 44·79	4	105 42 49·9	−9·966
24	11 4 11·7	21 17 57·36	5		

Northumberland Equatoreal.

1848.	Greenwich M.T.	Apparent R.A.	Log. $\frac{p}{P}$	Apparent N.P.D.	Log. $\frac{q}{P}$	No. of Comps. R.A.	No. of Comps. N.P.D.	Star.
	h m s	h m s		° ′ ″				
Aug. 9	11 14 8·5	21 30 42·43	−8·049	104 26 27·5	−9·959	2	2	*a*
	11 23 24·0	42·21	−7·982	19·8	9·959	12	11	*b*
17	12 1 1·3	23 46·65	+7·634	105 11 8·6	9·963	6	6	*c*
19	12 51 56·6	22 2·72	8·182	22 10·6	9·959	7	7	*d*
24	12 47 14·2	17 54·36	8·267	105 48 33·1	9·958	5	8	*e*
Sept. 2	10 55 24·3	21 11 11·73	7·763	106 31 13·7	9·967	5	3	*f*
	11 4 47·2	11·42	+7·898	14·2	−9·966	4	4	*g*

Corrections for parallax have not been applied either to these or to the meridian observations. The letters P, *p*, *q*, have the signification explained under the observations of *Metis*.

The following adopted mean R.A. and N.P.D. of the comparison stars were determined by meridian observations, with the exception of the N.P.D. of the star *c*, which was taken from Bessel.

	Mean R.A. 1848·0.	Mean N.P.D. 1848·0.	Designation of Star.
	h m s	° ′ ″	
a	21 33 16·62	104 43 22·0	42 Capricorni
b	21 29 58·20	104 12 49·4	Bessel xxi. 716
c	21 22 20·49	104 57 15·4	— xxi. 522
d	21 20 28·50	105 28 49·9	Not in catalogues
e	21 18 4·24	105 53 57·8	H.C. 41647
f	21 10 47·97	106 48 51·0	B.A.C. 7396
g	21 9 25·30	106 31 21·7	H.C. 41317

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Hamburg. Equatoreal. (M. Rümker.)

1848.	Hamburg M.T.			R.A.			Decl.			No. of Obs.
	m	h	s	m	h	s	°	′	″	
July 27	13	54	57·8	325	19	55·5	−13	15	14·3	5
29	12	20	38·2	324	57	25·4		25	46·7	11
30	11	35	28·1		46	4·1		30	48·3	20
Aug. 1	11	28	20·6		21	56·3		41	38·1	5
2	11	57	55·3	324	9	28·2		47	5·8	13
3	10	53	36·0	323	57	45·9	13	52	21·5	4
6	10	19	29·7		20	19·4	14	9	9·2	6
7	10	46	28·7	323	7	6·3		14	46·1	16
9	12	51	51·9	322	40	7·0	14	26	31·2	6
18	9	12	59·1	320	45	37·4	15	15	53·4::	
19	9	58	54·7	320	32	44·6		21	13·6	6
25	9	24	15·5	319	18	39·2	15	42	45·0	18
28	10	49	10·4	318	43	4·2	16	7	55·0	10
30	9	55	40·3		21	5·8		27	25·2	5
31	9	34	55·6	318	10	6·5		21	48·2	15
Sept. 4	9	15	57·0	317	28	43·0		39	11·3	20
5	9	53	56·5	317	18	50·5	−16	43	35·9	11

METIS.

Cambridge. Northumberland Equatoreal. (Prof. Challis.)

1848.	Greenwich M.T.			Appt R.A.			Log. $\frac{p}{P}$	Appt N.P.D.			Log. $\frac{q}{P}$	No. of Comps. R.A.	No. of Comps. N.P.D.	Star.
	h	m	s	h	m	s		°	′	″				
June 7	11	49	31·8	14	20	17·80	+8·418	101	22	41·2	−9·937	6	6	*a*
13	12	7	0·6		18	4·12	8·504		26	46·2	9·929	6	6	*b*
22	10	54	0·3		16	29·67	8·435	101	41	8·8	9·937	6	6	*c*
July 5	10	59	17·1		17	49·83	8·534	102	17	27·7	9·926	1	1	*d*
	11	12	43·6			50·06	8·549			43·2	9·923	7	7	*e*
6	10	9	40·0		18	5·68	8·450		21	3·2	9·936	7	8	*e*
12	9	51	55·2		20	11·96	8·464		43	59·4	9·937	9	8	*f*
13	10	23	34·6		20	38·12	8·522		48	13·5	9·929	12	13	*f*
15	10	7	3·8		21	32·73	8·509	102	56	41·6	9·932	7	7	*f*
27	9	44	30·4		28	22·10	8·537	103	53	57·9	9·929	5	5	*g*
Aug. 4	9	21	36·9	14	34	55·43	8·542	104	36	55·8	9·929	5	5	*h*
	9	30	9·2			56·36	+8·553			54·4	−9·927	1	1	*i*

" P is the equatoreal horizontal parallax, and *p*, *q*, are the corrections for parallax which are yet to be added to the apparent R.A. and N.P.D., the former expressed in seconds of time and the other in seconds of space. Hence the logarithms of *p* and *q* will be obtained by adding to the logarithms given in the above table,

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